Bulgin is widely recognised as a leading manufacturer of environmentally sealed connectors & components.

With over 95 years of experience in the industry, Bulgin continues to innovate & develop products and services to cater for its global customer base across a variety of markets.
## Circular Connectors

<table>
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<th>Series</th>
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## IEC Connectors

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## Fuse Holders

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<td>Fuse Holders</td>
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## Battery Holders

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## Switches

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<td>Antimicrobial Switches</td>
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## LEDs, Lampholders & Indicators

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<th>Component</th>
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<td>Indicators</td>
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<tr>
<td>IP Rated LEDs &amp; Lampholders</td>
<td>18</td>
</tr>
</tbody>
</table>
### ExPlora Series

#### Quick Points

**Power**
- Quick start thread coupling
- ATEX Zone 2 Certified
- Plug or socket versions
- 7-13mm dia cable acceptance - EXP-0
- 14-22mm dia cable acceptance - EXP-A
- Strain Relief Clamp - EXP-A series
- Up to 18A, 600V ac/dc rating
- 2, 3, 4, 5, 7 & 10 pole

#### Body Style & Part

**Power**
- Flex Connector - EXP-0911, EXP-A911
- Flex In-line - EXP-0921, EXP-A921
- Panel Mount - EXP-0931
- Panel Mount (with Flange) - EXP-0941

---

The EXPlora range is most suited to manufacturers of ancillary electrical equipment such as motors, pumps and lighting equipment. These operate in ATEX Zone 2 environments where hazardous or explosive atmospheres can be caused by flammable gases, vapours or combustible dusts.

### Body Style & Part Information

- EXP-0911
- EXP-A911
- EXP-0921
- EXP-A921
- EXP-0931
- EXP-0941
- EXP-0990
- EXP-0991
- EXP-0992

### 900 Series

#### Quick Points

**Power**
- Quick start thread coupling
- Flex Cable Connector
- Mates with all other styles
- 2, 3, 4, 5, 7 & 10 pole
- Plug or Socket
- 32A, 600 V (7 pole 430V)
- 7-15mm cable acceptance
- Overall diameter 58mm

#### Body Style & Part

**Power**
- Flex Connector - PX0911, PXA911
- Flex In-line - PX0921, PXA921
- Panel Mount - PX0931
- Panel Mount (with Flange) - PX0941

- PX0990
- PX0991
- PX0992

Our most high powered connector in the Buccaneer range capable of up to 32A, 600V ac/dc rating. Sealed up to IP68, the 900 Series features a secure screw thread lock to ensure robust high voltage connections.

### The 900 Series Product Range

- PX0911
- PXA911
- PX0921
- PXA921
- PX0931
- PX0941
- PX0950
- PX0990
- PX0991
- PX0992
Tried and tested, the Standard Buccaneer is one of our most popular waterproof connectors in the industry today. IP66, IP68 and IP69K rated, these power and data connectors have been designed into a wide range of markets such as Industrial and Marine, setting the gold standard for dust and waterproof circular connectors.
A compact and versatile connector within the Buccaneer range, the 400 series is ideal for designs requiring a small footprint. Taking a selection of great features and specifications from the larger Buccaneer family, the 400 series condenses them into a compact form factor giving engineers greater flexibility.

### 400 Series

<table>
<thead>
<tr>
<th>Quick Points</th>
<th>Data - Mini USB</th>
<th>Data - SMB &amp; Wireless Antenna</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power</strong></td>
<td>- Screw coupling</td>
<td>- Screw coupling</td>
</tr>
<tr>
<td></td>
<td>- Flex Cable Connector</td>
<td>- Single ended sealed cable assembly</td>
</tr>
<tr>
<td></td>
<td>- 2, 3, 4, 6, 8, 10 &amp; 12 pole</td>
<td>- Fully overmoulded construction (Flex Connector)</td>
</tr>
<tr>
<td></td>
<td>- Pin or Socket inserts</td>
<td>- Available in 2, 3 &amp; 4.5 lengths</td>
</tr>
<tr>
<td></td>
<td>- 1-8A, 50-250V ac/dc</td>
<td>- 5 way crimp, for use with PC header or rear panel mounting connector with leaded 5 way header (leaded panel mount versions)</td>
</tr>
<tr>
<td></td>
<td>- Cable acceptance 3-7mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Overall diameter 19mm</td>
<td></td>
</tr>
</tbody>
</table>

### Body Style & Part Information

<table>
<thead>
<tr>
<th>Power</th>
<th>Data - Mini USB</th>
<th>Data - SMB &amp; Wireless Antenna</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flex Connector PX0410</td>
<td>Flex Connector Standard &amp; Mini A to B</td>
<td>Re-Wireable Flex Connector</td>
</tr>
<tr>
<td>Flex In-line PX0411</td>
<td>Flex Connector Mini B to Standard A or Mini A</td>
<td>Pre-Wireable Flex Connector</td>
</tr>
<tr>
<td>Prewired Flex Cable Connector</td>
<td>PX0444, PX0442</td>
<td>Panel Mount PX0414</td>
</tr>
<tr>
<td>Panel Mount</td>
<td>Front Panel Mount Mini B type or Mini AB</td>
<td>Sealing Cap PX0480, PX0481, PX0485</td>
</tr>
<tr>
<td>PX04412, PX0413</td>
<td>Rear Panel Mount Mini B type or Mini AB</td>
<td>Rear Panel PCB Mount Mini B type or Mini AB</td>
</tr>
<tr>
<td>Sealing Cap Accessory</td>
<td>PX0446, PX0457</td>
<td>PX0480 PX0480/1 PX0481 PX0484 SMB Antenna</td>
</tr>
<tr>
<td>PX0480, PX0480/1, PX0481, PX0484</td>
<td>Rear Panel PCB Mount Mini B type or Mini AB</td>
<td>PX0407, PX0408, PX0409 SMB 90 Degree Angled Antenna</td>
</tr>
<tr>
<td>PX0447, PX0458</td>
<td></td>
<td>PX0407/90, PX0408/90, PX0409/90</td>
</tr>
</tbody>
</table>

### The 400 Series Product Range

- PX0410
- PX0411
- PX0444
- PX0441
- PX0441/1
- PX0414
- PX0412
- PX0413
- PX0457
- PX0458
- PX0400
- PX0480
- PX0480/1
- PX0481
- PX0484
- PX0443
- PX0485
- PX0480
- PX0484
## 6000 Series

### Quick Points

**Power**
- Metal & Plastic versions
  - Push/pull coupling
  - Flex Cable Connector
  - Mates with all other body styles
  - 2, 3, 8, 16 & 22 pole
  - Plug or Socket
  - 16A, 277 V (max)
  - 4-10mm cable acceptance
  - Overall diameter 32mm

**Data - Ethernet**
- Plastic & Metal versions
  - Push/pull coupling
  - Re-wirable flex Cable Connector
  - Two versions:
    - for PE & PUR jacket cable
    - Supplied with shielded RJ45
  - Sealed through panel
  - Cat 5e shielded coupler
  - Standard patch cord can be plugged into rear
  - Version with earth wire available

**Data - USB**
- Plastic version Only
  - Push/pull coupling
  - Single and double ended sealed cable assembly
  - Flex connector available in 2m, 3m and 5m lengths
  - Leaded with 5 way crimp connector (lead version only)

### Designed and independently tested to IP66, IP68 & IP69K standards, the rapid twist lock 6000 series connectors are ideal for applications where ingress of dust and water must be avoided and where ease of connection, space and appearance are important requirements.

### Body Style & Part Information

#### Power
- Flex Connector PXP6010, PXM6010
- Flex In-line PXP6011, PXM6011
- Panel Mount PXP6012, PXM6012
- Sealing Cap Accessory PXP6081, PXM6081 PXP6082, PXM6082 PXP6083, PXM6083

#### Data - Ethernet
- Ethernet Flex Connector PXP6034, PXM6034 PXP6033TP, PXM6033TP
- Ethernet Overmoulded Flex PXP6037, PXM6034
- USB A/B Flex Connector PXP6040, PXM6041
- USB Panel Mount PXP6042
- USB Panel Mount with lead PXP6043

### The 6000 Series Product Range

[PXP6010][1]
[PXP6011][1]
[PXP6012][1]
[PXP6010][1]
[PXP6011][1]
[PXP6012][1]
[PXM6034][1]
[PXM6033][1]
[PXP6081][1]
[PXP6082][1]
[PXP6083][1]
[PXP6084][1]
[PXP6037][1]
[PXP6034][1]
[PXP6033][1]
[PXM6040/A][1]
[PXM6042/A][1]
[PXM6043/A][1]
[PXM6043/B][1]
## 7000 Series

<table>
<thead>
<tr>
<th>Quick Points</th>
<th>Body Style &amp; Part</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power</strong></td>
<td></td>
</tr>
<tr>
<td>- Metal &amp; Plastic versions</td>
<td>Flex Connector - PXP7010, PXM7010</td>
</tr>
<tr>
<td>- Rapid twist locking</td>
<td>Flex In-line - PXP7011, PXM7011</td>
</tr>
<tr>
<td>- 2, 3, 6, 10 &amp; 32 pole</td>
<td>Panel Mount - PXP7012, PXM7012</td>
</tr>
<tr>
<td>- Plug or Socket</td>
<td>Sealing Cap Accessory - PXP7081, PXP7082, PXM7081, PXM7082, PXM7083</td>
</tr>
<tr>
<td>- 25A, 600 V (max)</td>
<td></td>
</tr>
<tr>
<td>- 5-15mm cable acceptance</td>
<td></td>
</tr>
<tr>
<td>- Overall diameter 42mm</td>
<td></td>
</tr>
</tbody>
</table>

Available in plastic and metal body constructions, the 7000 Series Buccaneer connectors combine the easy use of a quick coupling mechanism with proven environmental sealing for signal and mains power.

### The 7000 Series Product Range

- PXM7010
- PXM7011
- PXM7012
- PXP7010
- PXP7011
- PXP7012

## 4000 Series

<table>
<thead>
<tr>
<th>Quick Points</th>
<th>Body Style &amp; Part</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power</strong></td>
<td></td>
</tr>
<tr>
<td>- Rapid twist lock coupling</td>
<td>Flex Connector - PXP4010</td>
</tr>
<tr>
<td>- 2, 3, 4, 6, 8, 10 &amp; 12 pole power up to 600V, 13A</td>
<td>Flex In-line - PXP4011</td>
</tr>
<tr>
<td>- Sealed to IP66, IP68 and IP69K when mated</td>
<td>Panel Mount - PXP4013</td>
</tr>
<tr>
<td>- Solder and crimp contacts available</td>
<td>Sealing Cap Accessory - PXP4081, PXP4082, PXP4083</td>
</tr>
<tr>
<td><strong>Data (Micro USB)</strong></td>
<td></td>
</tr>
<tr>
<td>- Data rates up to 480Mbs</td>
<td>Flex Connector - Standard A to Micro B</td>
</tr>
<tr>
<td>- USB V2.0 performance</td>
<td>PXP4040</td>
</tr>
<tr>
<td>- Secure, proven locking system</td>
<td>Rear Panel Mount Micro B</td>
</tr>
<tr>
<td>- Tamperproof Construction</td>
<td>PXP4043</td>
</tr>
<tr>
<td>- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1</td>
<td>Sealing Cap Accessory - PXP4081, PXP4083</td>
</tr>
</tbody>
</table>

The 4000 Series brings high power and data in a compact form factor. Its small and mighty characteristics make it ideal for power and data applications across a wide variety of markets.

### The 4000 Series Product Range

- PXP4010
- PXP4011
- PXP4013
- PXP4040
- PXP4043
- PXP4081
- PXP4082
- PXP4083
- PXP4089
- PXP4089

---

Circular Connectors
The M-Series Buccaneer range has been designed to offer flexible connectivity solutions for a variety of industrial automation applications. These rugged and robust interconnects are ideal for industries requiring secure and reliable connections.
### 4000 Fiber Series

<table>
<thead>
<tr>
<th>Quick Points</th>
<th>Body Style &amp; Part</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Data (C-Type USB)</strong></td>
<td><strong>Data (C-Type USB)</strong></td>
</tr>
<tr>
<td>- Data rates up to 10 Gbz</td>
<td>Flex Connector Standard A To C-Type</td>
</tr>
<tr>
<td>- USB V3.1 performance</td>
<td>PXP4040/C/1M00</td>
</tr>
<tr>
<td>- Secure, proven locking system</td>
<td>Rear Panel Mount C-Type</td>
</tr>
<tr>
<td>- Tamperproof Construction</td>
<td>Sealing Cap Accessory</td>
</tr>
<tr>
<td>- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1</td>
<td><strong>Data (Fiber)</strong></td>
</tr>
<tr>
<td><strong>Data (Fiber)</strong></td>
<td>Flex Connector</td>
</tr>
<tr>
<td>- Cabled versions 0S1, 0M1, 0M3</td>
<td>PXF4050, PXF4054, PXF4055</td>
</tr>
<tr>
<td>- Cabled 5 to 450M</td>
<td>Flex Inline</td>
</tr>
<tr>
<td>- Sealed to IP66, IP68 and IP69K when mated</td>
<td>Panel Mount</td>
</tr>
<tr>
<td>- LC-Type fiber interface</td>
<td>Sealing Cap Accessory</td>
</tr>
</tbody>
</table>

As the smallest rugged optical connector available on the market, the 4000 Series Fiber Simplex connector is ideal for outdoor broadcast, FTTX (fiber to the x), server room engineering, civil engineering, marine, aviation and rail applications. The connector's small form factor is particularly useful where installation space is limited or multiple connectors need to be accommodated.

**The 4000 Fiber Series Product Range**

- PXF4050  
  PXF4050XX
- PXF4051  
  PXF4051XXX
- PXF4053  
  PXF4053XXX
- PXF4054XXX  
  PXF4054XXX
- PXF4040  
  PXF4040/C
- PXF4043  
  PXF4043/C
- PXF4081  
  PXF4082
- PXF4083
- PXP4089
**EMI Filters**

- Current ratings are from 1 to 10 amps
- Single or twin fused types
- Flange, snap to panel or base/bulkhead mounting options
- 2.8 or 6.3mm tabs

**Quick Points**

Designed to reduce conducted mains borne EMI, this extensive range provides many solutions to EMI problems. To meet individual design requirements the filters are available with one standard filter circuit.

**The EMI Filter Range**

- PS00/A
- PS01/A
- PS02/A
- PS03/A
- PS21/A
- PS25/A
- PS26/A

**Power Entry Modules**

- Compact single rectangular mounting hole, flange fixing alternative available for security of screw fixing
- Vertical and horizontal arrangement
- Single or double pole variants
- Illumination options
- Filtered inlet options

**Quick Points**

With over 26,000 combinations, Bulgin's Polysnap mains power inlet modules offer a very adaptable and flexible solution to panel design. They allow combinations of mains inlets and outlets, filtered inlets, switches, fuse holders, voltage selectors and indicators to be mounted in either horizontal or vertical format bezels ready for quick snap-fit assembly.

**The Power Entry Module Range**

- BZ01
- BZ03/02
- BZV03/07
- BZV04/04
- BZV03/07
- BZ01/01
- BZH01/10
- BVA01/10
- C14 Inlet Twin fuse
### IEC Connectors

<table>
<thead>
<tr>
<th>IEC Connectors</th>
<th>Quick Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Flange fixing, snap to panel &amp; PCB mounting options</td>
<td></td>
</tr>
<tr>
<td>- 250V ac, 10A up to 20A</td>
<td></td>
</tr>
<tr>
<td>- 2.8 solder tabs, 4.8 and 6.3 fast on tabs, screw terminal and PC spill versions</td>
<td></td>
</tr>
<tr>
<td>- Accessories include insulating boots, retaining clips and safety covers</td>
<td></td>
</tr>
<tr>
<td>- Additional colours available</td>
<td></td>
</tr>
</tbody>
</table>

A full range of quality mains rated connectors conforming to IEC and EN 60320 specifications carrying UL, CSA, VDE and other approvals. With electrical ratings up to 20A, 250V (UL) these connectors offer solutions to most mains powered applications.

### The IEC Connector Range

![IEC Connectors Diagram](image)

<table>
<thead>
<tr>
<th>PX0587</th>
<th>PX0587/SE</th>
<th>PX0588</th>
<th>PX0575</th>
<th>PX0579</th>
<th>PX0580</th>
<th>PF0011</th>
<th>PX0580/PC</th>
</tr>
</thead>
<tbody>
<tr>
<td>PF0001</td>
<td>PF0002</td>
<td>PX0597</td>
<td>PX0590</td>
<td>PX0690</td>
<td>PF0006</td>
<td>PF0007</td>
<td>PX0685</td>
</tr>
<tr>
<td>PX0686/SE</td>
<td>PX0716</td>
<td>PX0718</td>
<td>PX0717</td>
<td>PX0578</td>
<td>PX0675</td>
<td>PX0695</td>
<td>PX0695/PC</td>
</tr>
<tr>
<td>PX0793</td>
<td>PX0793 Termination</td>
<td>PX0705</td>
<td>KT0006</td>
<td>14228</td>
<td>12075</td>
<td>PX0597</td>
<td>PX0596</td>
</tr>
<tr>
<td>PX0598</td>
<td>PX0591</td>
<td>PX0592</td>
<td>PX0578</td>
<td>0717-1-P</td>
<td>0717-1S</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The Fuse Holder Range

- Designed primarily for 5 x 20mm and 6.3 x 32mm size fuses
- Protection against shock to categories PC1, PC2 and PC3
- In-line, PCB mounting and panel mounting (screw or snap fit) options available
- Terminal options for solder, 2.8mm, 4.8mm or 6.3mm tabs or PC spills
- Front of panel seal up to IP68 in both 5 x 20mm and 6.3 x 32mm size fuses
- Captive drawer, screw cap and bayonet cap Fuse carrier styles
- Screwdriver release and screw cap - with finger release options

Bulgin’s extensive range of fuse holders are designed to give the degree of protection demanded in today’s sophisticated electronic equipment. Carrying world-wide safety approvals from UL, VDE, CSA and IMQ, all types are manufactured from high grade flame retardant nylon and polyester materials.
Battery Holders

Quick Points
- Screw and flange panel fixing
- PCB and base mounting versions
- Standard fixing and front panel sealed panel mounting versions, IP67 rated
- Open frame styles available

Manufactured from quality mouldings and metal components to ensure a secure and reliable connection, Bulgin's battery holder range caters for battery sizes; AAA(R03), AA(R6), C(R14), D(R20), PP3(6R61) and CR123, accommodating 1, 2, 3 or 4 cells.

The Battery Holder Range

<table>
<thead>
<tr>
<th>BX5011/1</th>
<th>BX5001/1</th>
<th>BX5016</th>
<th>BX0011/1</th>
<th>BX0001/1</th>
<th>BX0016</th>
<th>BX0027</th>
<th>BX0023</th>
</tr>
</thead>
<tbody>
<tr>
<td>BX0026</td>
<td>BX0034</td>
<td>BX0035</td>
<td>BX0036</td>
<td>BX0037</td>
<td>BX0033</td>
<td>BX0123</td>
<td></td>
</tr>
</tbody>
</table>
## Push Button Switches

- Miniature, round and rectangular push button switches available
- Ratings up to 16A, 250V ac
- 12(12)A 250V ac rating also available
- Latching and momentary actions
- Choice of actuators (custom option also available)
- Square and Round Mounting Styles
- IP68 versions available

---

Bulgin’s broad line of push button switches are available in various sizes and configurations. This includes a variety of illumination and terminal options as well as several with high inductive power ratings suitable for motor driven applications. These switches can be found in many markets including home appliances, commercial, medical, audio and security.

## The Push Button Switch Range
**Touch Switches**

<table>
<thead>
<tr>
<th>Quick Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Piezo switches have no moving mechanical parts which offers excellent endurance and durability</td>
</tr>
<tr>
<td>- Stainless Steel and Aluminium body types</td>
</tr>
<tr>
<td>- Ratings up to 1A, 24V ac/dc</td>
</tr>
<tr>
<td>- Illuminated and Non-Illuminated variants available</td>
</tr>
<tr>
<td>- Latching and momentary actions</td>
</tr>
<tr>
<td>- Sealed to IP68 and IP69K ratings</td>
</tr>
<tr>
<td>- Capacitive switches have no moving mechanical parts which offers excellent endurance and durability</td>
</tr>
<tr>
<td>- Stainless Steel or Anodised Aluminium</td>
</tr>
<tr>
<td>- Ratings up to 10mA, 12V ac/dc</td>
</tr>
<tr>
<td>- Illuminated and Non-Illuminated variants available</td>
</tr>
<tr>
<td>- Latching and momentary actions</td>
</tr>
<tr>
<td>- Sealed to IP68 and IP69K ratings</td>
</tr>
</tbody>
</table>

---

Bulgin’s touch switches are available with either piezo or capacitive technology. Both types of switches are usually comprised of flat, metallic discs, sometimes surrounded by an illuminated ring that lights up when the switch is activated.

---

**The Piezo Switch Range**

<table>
<thead>
<tr>
<th>Quick Points</th>
</tr>
</thead>
</table>

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**The Capacitive Switch Range**

---

**Slide & Voltage Selectors**

<table>
<thead>
<tr>
<th>Quick Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Ratings up to 16A, 250V ac</td>
</tr>
<tr>
<td>- PCB and solder terminals</td>
</tr>
<tr>
<td>- Voltage Selector Models</td>
</tr>
<tr>
<td>- Snap in and flange mounting</td>
</tr>
<tr>
<td>- 2, 3, 4 &amp; 5 position</td>
</tr>
<tr>
<td>- Choice of circuits</td>
</tr>
<tr>
<td>- Choice of actuators</td>
</tr>
</tbody>
</table>

---

With up to 5 switching positions as well as multiple terminal, circuit and slider options, Bulgin’s board mounted power slide switches can be configured to suit your needs. We also offer a wide range of voltage selector types that can be either snapped into a panel or flange mounted.

---

**The Slide & Voltage Selector Switch Range**


### Rocker Switches

**Quick Points**
- Available types: Ultra-thin, Miniature, Twin unit, Miniature round and Standard
- Rating from 10A, 250V ac up to 20A, 277V ac
- Single & double pole variants available
- Push-on, solder & PCB terminals
- Illuminated and non-illuminated options
- High in-rush (ON-OFF types)
- Matching Indicators
- Splash resistant options
- Choice of bezel styles and sizes, panel cut-outs and actuators
- Choice of switching circuits including 3 position

With numerous configurations and available options, Bulgin's extensive line of rocker switches are the primary choice for many globally recognized OEM's.

### The Rocker Switch Range

<table>
<thead>
<tr>
<th>Model</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>8800</td>
<td><img src="image" alt="8800" /></td>
</tr>
<tr>
<td>8500</td>
<td><img src="image" alt="8500" /></td>
</tr>
<tr>
<td>8600</td>
<td><img src="image" alt="8600" /></td>
</tr>
<tr>
<td>8620 &amp; 8670</td>
<td><img src="image" alt="8620 &amp; 8670" /></td>
</tr>
<tr>
<td>1250</td>
<td><img src="image" alt="1250" /></td>
</tr>
<tr>
<td>6000</td>
<td><img src="image" alt="6000" /></td>
</tr>
<tr>
<td>1500</td>
<td><img src="image" alt="1500" /></td>
</tr>
<tr>
<td>5500</td>
<td><img src="image" alt="5500" /></td>
</tr>
<tr>
<td>1500 Twin</td>
<td><img src="image" alt="1500 Twin" /></td>
</tr>
<tr>
<td>1550</td>
<td><img src="image" alt="1550" /></td>
</tr>
<tr>
<td>6000</td>
<td><img src="image" alt="6000" /></td>
</tr>
<tr>
<td>R13</td>
<td><img src="image" alt="R13" /></td>
</tr>
</tbody>
</table>

### Toggle Switches

**Quick Points**
- Nylon and Metal switch variants
- Multiple Lever Options
- Ratings up to 20A, 250V ac - 277V ac
- IP67 panel seal versions, supplied complete with gaskets (3900 Series – All Variants)
- Single and double pole
- Choice of circuit options including 3 position and momentary
- Mounting hole: 12.7mm diameter
- Sealing accessories available
- Quick Connect, Solder, Screw and PCB Termination Options

Well known for their quality and reliability, Bulgin's toggle switches are cost effective solutions to many existing applications. Independently tested for shock and vibration along with operation to -40°C, these switches offer features at an attractive price point often well below that of the existing competition.

### The Toggle Switch Range

<table>
<thead>
<tr>
<th>Model</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>3900</td>
<td><img src="image" alt="3900" /></td>
</tr>
<tr>
<td>1700</td>
<td><img src="image" alt="1700" /></td>
</tr>
</tbody>
</table>
## Refrigerator Switches

<table>
<thead>
<tr>
<th>Quick Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Door switches</td>
</tr>
<tr>
<td>- Switch rating from 0.2A, 250V ac up to 5A, 250Vac</td>
</tr>
<tr>
<td>- Splash resistant variants</td>
</tr>
<tr>
<td>- Choice of actuators</td>
</tr>
<tr>
<td>- Momentary on and momentary off switching</td>
</tr>
</tbody>
</table>

Long recognised as a leader in refrigerator door switches, Bulgin’s wide range of types and configurations will suit almost any need. With both double pole and single pole options, our switches are not only ideal for traditional refrigerator and freezer applications but can and have been used in a variety of door applications as well.

## The Refrigerator Switch Range

### Quick Points
- BioCote antimicrobial material
- Single and double pole options
- Ratings from 15A, 250V ac to 20A, 277V ac
- Choice of bezel styles and sizes
- Choice of panel cut-out sizes:
  - 19.3 x 12.9mm (8500 & 8300 Series)
  - 30.1 x 22.2mm (6050 Series)
- 6 Different mounting sizes/styles (1550 Series)
- Illuminated and non-illuminated options available

Among the most innovative additions to our product offering are BioCote antimicrobial switches. BioCote is a silver ion product that is added to the molding process so it is integral to the plastic and will not wear off. Switches made with the BioCote additive are infused with antimicrobial properties that prevent the spread of dangerous microbes from multiple users activating the switch.

## The Antimicrobial Switch Range
## Indicators

- Various LED, Neon and Filament illuminated options available
- Wide viewing angle option
- Termination options include Wire Leads, 2.8 Tabs, 4.8 or 6.3 QC termination
- Multiple termination types
- Rugged stainless steel variants that complement our anti-vandal switches

## The Indicator Range

This range of panel mounting indicators consists of many different LED and Neon types, bezel styles and colours. The range has developed to meet the many different needs of panel design including IP66 environmentally sealed versions for use where a front panel seal is needed.
**LEDs & Lampholders**

<table>
<thead>
<tr>
<th>Quick Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Available with or without LEDs</td>
</tr>
<tr>
<td>- Black or Chrome finish</td>
</tr>
<tr>
<td>- 3mm and 5mm LEDs</td>
</tr>
<tr>
<td>- Prominent or recessed styles</td>
</tr>
</tbody>
</table>

Among the smallest and most versatile products within our indicator range are LED Lamps and Lampholders. Quite small in size, the LED housings we offer incorporate an LED and allow it to be mounted in a panel. We also offer re-lampable LED lampholders which can be supplied with or without LED's. These products are ideal where a reliable, long life indication in a small package is needed.

### The LED & Lampholder Range

- 1035, 1036, 1037
- 1050
- DX0998
- DX0999
- DX1120
- DX1121
- DX1090
- DX1092
- DX1091
- DX1093
- DX1116
- DX1118
- DX1117
- DX1119
### IP Rated LEDs & Lampholders

- Panel sealed to IP66 & IP67
- Bezel sizes ranging from 9.5 – 22.9 diameter
- Panel hole sizes ranging from: 6.3 – 19.0 diameter
- Neon, LED-dc, LED-110/230V ac or filament lamp options available
- Chrome bezels available on specific product types
- Termination options include Wire Leads, 2.8 Tabs, 4.8 or 6.3 QC termination

---

Bulgin has a long history of offering sealed, robust products and our indicators are no exception. Available in six popular sizes and styles, the indicators are all sealed to IP67 and can be fitted with Neon, LED or filament lamps. Several of our larger Low Voltage (IP67) and small LED lampholders (IP66 and IP67) are also available with IP sealing. Both types can be fitted with or without lamps. All of these products are great for any environment where moisture is a concern.

---

### The IP Rated LED & Lampholder Range

[Images of LED & Lampholder Range]

1041 OS  
0177 OS  
0245 OS  
0275 OS  
1050 OA  
DX1090  
DX1092  
DX1091  
DX1093  
DX0505  
DX0506  

DX0507  
DX0508
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